PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PH-2294-PCT2	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No. PCT/JP2004/019259	International filing date (day/month/y 22.12.2004	Priority date (day/month/year) 25.12.2003						
International Patent Classification (IPC) or national classification and IPC A61K39/395, A61K47/18, A61K47/10, A61K47/34, A61K9/08, A61K47/12								
Applicant KIRIN BEER KABUSHIKI KAISHA								
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of _	sheets	s, including this cover sheet.						
3. This report is also accompanied by Al	NNEXES, comprising:							
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:						
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	Bureau only) a total of (indicate type a	nd number of electronic carrier(s))						
		, containing a sequence listing and/or tables						
related thereto, in computer Section 802 of the Administr		he Supplemental Box Relating to Sequence Listing (see						
This report contains indications relating	ng to the following items:							
Box No. I Basis of the	report							
Box No. II Priority								
Box No. III Non-establis	shment of opinion with regard to nove	lty, inventive step and industrial applicability						
Box No. IV Lack of unit	y of invention							
BON 110. 1	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain docu								
Box No. VII Certain defe	cts in the international application							
Box No. VIII Certain obse	Box No. VIII Certain observations on the international application							
Date of submission of the demand	Date of comple	etion of this report						
Name and mailing address of the IPEA/JP	Authorized off	Authorized officer						
Facsimile No.	Telephone No.							

International application No.

PCT/JP2004/019259

Box	No. I	Basis of the report	
1.		h regard to the language, this report is based on the internation cated under this item.	al application in the language in which it was filed, unless otherwise
	П	This report is based on translations from the original languag	
	_	which is the language of a translation furnished for the purpo	oses of:
		international search (Rule 12.3 and 23.1(b))	
		publication of the international application (Rule 12.4)	
	33741	international preliminary examination (Rule 55.2 and/o	
2.	recei	viving Office in response to an invitation under Article 14 are	eport is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to
	this i	report):	
	\forall	the international application as originally filed/furnished	
	ш	the description:	
		pages	as originally filed/furnished
		pages*	received by this Authority on
		pages*	received by this Authority on
		the claims:	
		nos.	as originally filed/furnished
		nos.*	as amended (together with any statement) under Article 19
			received by this Authority on
			received by this Authority on
	\Box		
	ш	the drawings:	
		sheets	as originally filed/furnished
			received by this Authority on
	_	sheets*	received by this Authority on
	Ш	a sequence listing and/or any related table(s) – see Suppleme	ntal Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, nos.	
		41 - 4	
4.	\Box		ments annexed to this report and listed below had not been made, since
••	Ш	they have been considered to go beyond the disclosure as file	
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
		any table(s) related to sequence listing (specify):	
*	If ite	em 4 applies, some or all of those sheets may be marked "supe	rseded."

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Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement	•				
	Novelty (N)	Claims 16, 17, 19, 20	YES			
		Claims 1-15, 18, 21-23	NO			
	Inventive step (IS)		NEG.			
		Claims 1–23	- YES NO			
	Industrial applicability (IA)					
	Industrial applicability (IA)		- YES NO			
		Claims	. NO			
2.	2. Citations and explanations (Rule 70.7)					
	Document 1: WO	03/18056 Al (Chugai Seiyaku KK), 6 March				
	20	03, entire document; claims; page 9, line				
	14	to page 12, line 14; embodiment 1 & EP				
	14	28537 A1 & AU 2002/328593 A1 & US				
	20	04/213785 A1				
	Document 2: JP	2002-504907 A (Genentech, Inc.), 12				
	February 2002, entire document; claims; page					
	13	, lines 2 to 25; embodiments & WO 98/56418				
	А	& AU 9882559 B & EP 999853 A1				
	Document 3: WO	00/66160 A1 (Yamanouchi Pharmaceutical				
	Со	o., Ltd.), 19 November 2000, entire				
	do	ocument; claims; page 5, line 17 to page 9,				
	li	ne 8; embodiment 3 & AU 2000/43149 A & EP				
	11	.74148 A1				
	Document 4: WO	02/96457 A2 (Novartis AG), 5 December				
	20	002, entire document, claims, page 7, line				
		to page 8, line 2; example 4 & EP 1397159				
		% AU 2002/321055 A1 & US 2004/170623 A1 &				
		2 2004-532262 A				
		03/68259 A1 (Chugai Seiyaku KK), 21 August				
		103, entire document, claims, page 9, line				
		to page 11, line 6; embodiment 1 & AU				
	20	03/211990 A1 & JP 2004-292455 A & EP				

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1475100 A1

Document 6: JP 5-65233 A (Mitsui Toatsu Chemicals, Inc.),
19 March 1993, entire document, claims 3 and
4, paragraphs [0017] and [0018], embodiment
2 & WO 92/15331 A1 & AU 9213375 B & EP
531539 A1 & EP 841067 A1 & US 5908826 A

Document 7: WO 01/47554 A1 (Chugai Seiyaku KK), 5 July 2001, entire document, claims; page 14, lines 3 to 24; tables 1, 4 and 5 & AU 2001/22289 A1 & EP 1254666 A1 & US 2003/124119 A1

Document 8: WO 99/37329 A1 (Astra AB), 29 July 1999, entire document, claims, examples & AU 9924448 B

(1)

Documents 1 to 6 set forth a water-based medicinal preparation containing an effective quantity of antibodies for treatment in a buffer solution, and having a pH of 4.0 to 6.0, and in particular an example employing citric acid buffer solution as the aforementioned buffer solution is specifically disclosed. Documents 1 to 6 also specifically indicate that a surfactant such as polyol and/or polysorbate 80 is used as an isotonic agent for sorbitol or the like and is blended in conjunction with this water-based medicinal preparation, or said feature would merely be a feature which a person skilled in the art would be added as a matter of course by a person skilled in the art in the light of these documents.

Therefore the invention set forth in claims 1 to 15, 18 and 21 to 23 is acknowledged to be the same as the

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

invention set forth in one of documents 1 to 6, and therefore lacks novelty and does not involve an inventive step.

(2)

Employing, as the antibodies set forth in documents 1 to 6, existing anti-HLA-DR antibodies or anti-CD40 antibodies, or antibodies prepared by a commonly used means with HLA-D or CD40 as an antigen, is merely a technique which a person skilled in the art could accomplish as necessary, and having in particular HLA-DR antibodies or anti-CD40 antibodies serve as the subject of stabilization is not acknowledged to offer a particular effect.

Moreover, employing glutamic acid, which is a commonly used acidic region buffer agent, as an alternative to citric acid or in addition to citric acid, in any of the inventions set forth in documents 1 to 6, would not require any particular creative skill on the part of a person skilled in the art.

Therefore the invention set forth in claims 16, 17, 19 and 20 does not involve an inventive step in the light of any one of documents 1 to 6.

(3)

Document 7 sets forth a water-based medicinal preparation wherein antibodies to thyroid gland hormone-related peptides are stabilized, and a solution containing a quantity of the aforementioned antibodies effective for treatment in a buffer solution and having a pH which falls within the range of 4.0 to 6.0, and specifically discloses an example using citric acid as a

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

buffer solution.

Therefore, in the same way as described in (1), the invention set forth in claims 1 to 15, 18 and 21 to 23 is acknowledged to be the same as the invention set forth n document 7, and therefore lacks novelty and does not involve an inventive step. In addition, the invention set forth in claims 19 and 20 does not involve an inventive step in the light of document 7 for the same reasons as stated in (2) above.

(4)

Document 8 sets forth a water-based pharmaceutical containing a quantity of antibodies effective for treatment in a citric acid buffer solution, and having a pH which falls within the range of 4.0 of 6.0.

Therefore the invention set forth in claims 1 to 5, 7 to 15, 18 and 21 to 23 is understood to be the same as the invention set forth in document 8, and therefore lacks novelty and does not involve an inventive step.

In addition, it would be easy for a person skilled in the art to accomplish the invention set forth in claims 6, 16 and 17 in the light of document 8, and adding commonly used means if necessary, for the same reasons as stated in (2) above, therefore this invention does not involve an inventive step in the light of document 8.

International application No.
PCT/JP2004/019259

Box	No. VI Certain documents cited			
1.	Certain published documents (Rule 70.10)			
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	US 2004/33228 A1	19.02.2004	16.08.2002	
	[E,X]			
2.	Non-written disclosures (Rule 70.9)			
				e of written disclosure
	Kind of non-written disclosure	Date of non-written di (day/month/yea	sclosure referring r)	g to non-written disclosure (day/month/year)